



Solar-Powered Smart Microgrid for Concentrated Areas and Public Lighting System

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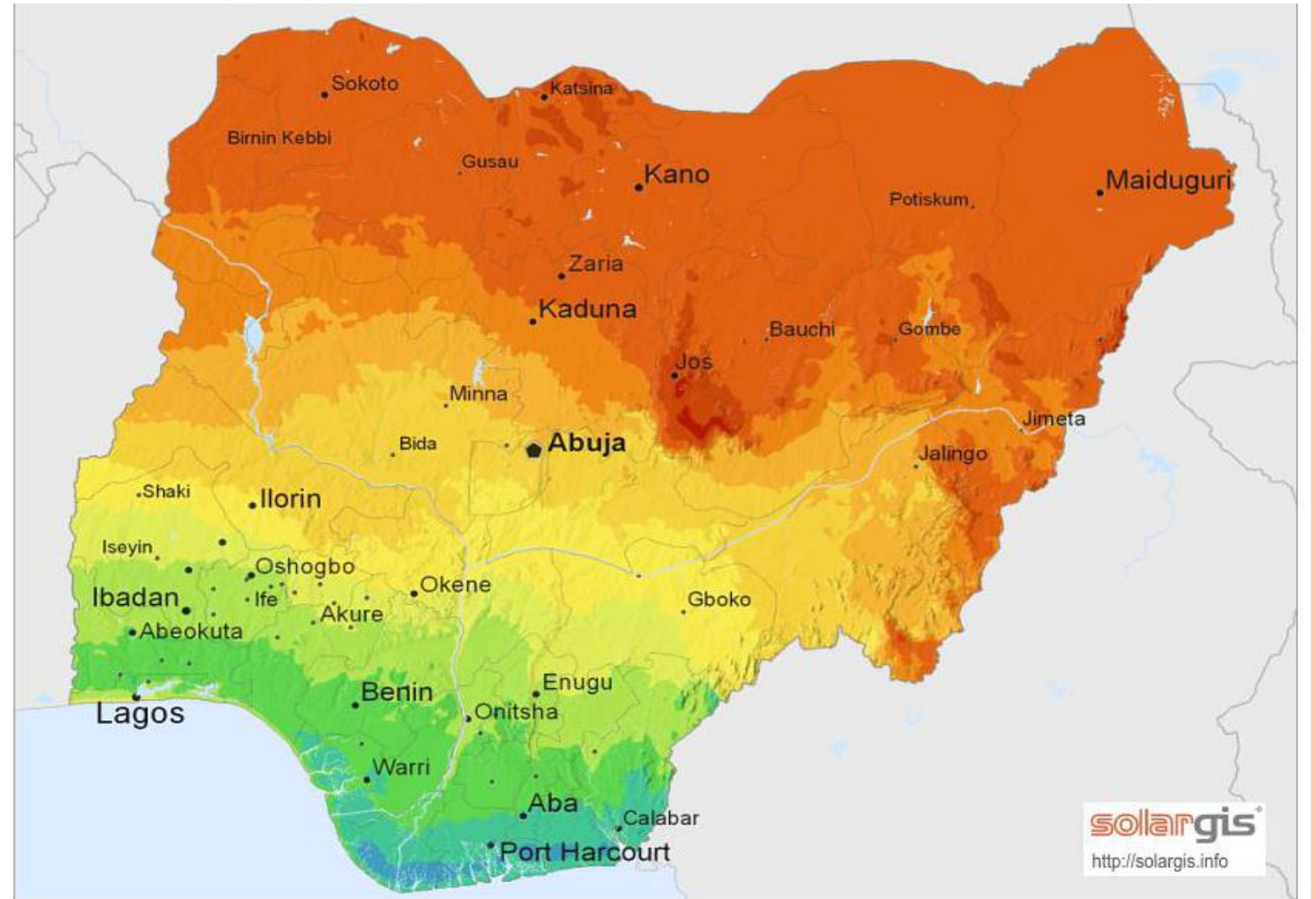
Problem

- Generates and supply ≤ 4 gigawatt of electricity
- Weak National Grid System
- Poor quality of electricity supply
- Intensive use of diesel/petrol generators
- Uncoordinated strategies for achieving Sustainable Development Goals



Solution

- Solar Power (irradiation between 3.5-7Kw/m2/day).
- Smart Microgrid Technology-
Generate, distribute and regulate supply
- End-to-end solutions



Average annual sum (4/2004 - 3/2010)

< 800 1000 1200 1400 1600 1800 > kWh/m²

0 100 200 km

solarGIS
<http://solarGIS.info>

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Our Model: Concentrated Geographic Areas

For;

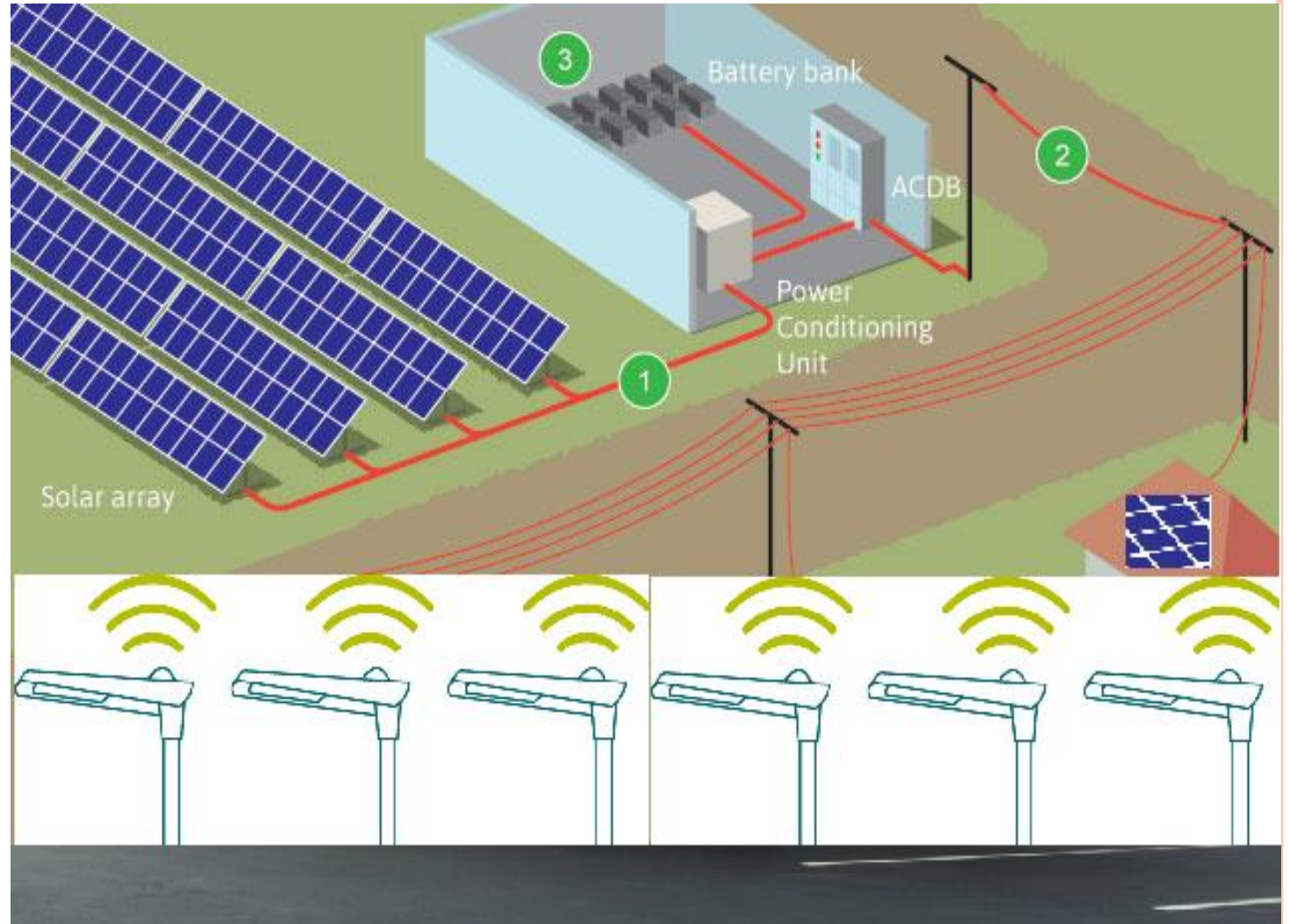
- Housing estate
- Business and industrial parks
- Hospitals
- Military facilities
- Academic Institutions
- Irrigation estate
- Retail mall



Our Model: Public Lighting System

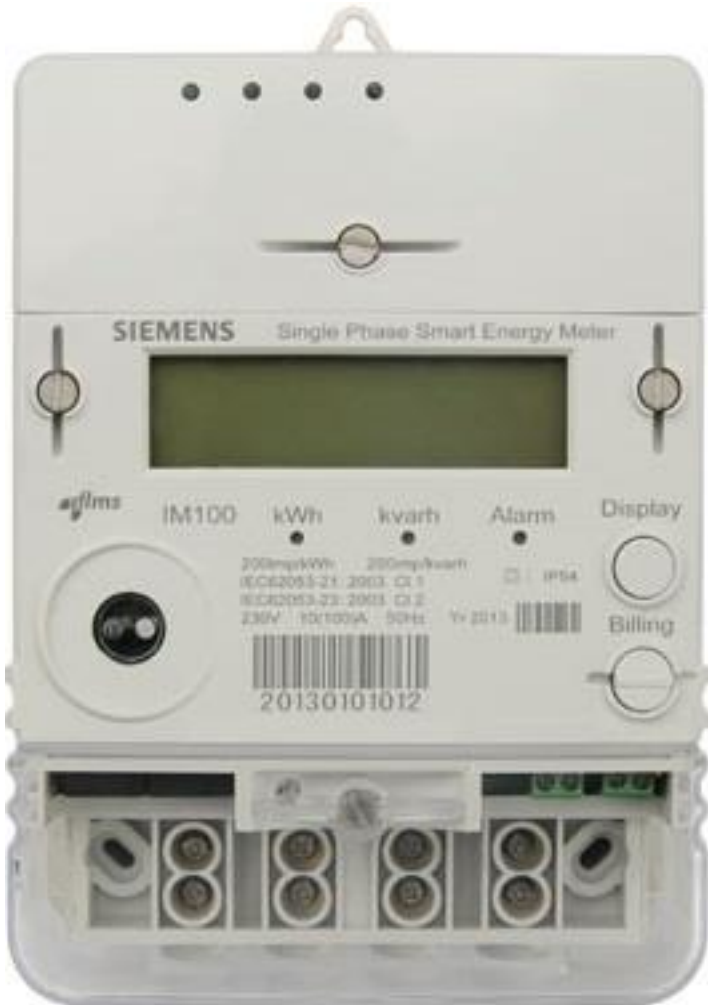
For;

- Street Lights
- Traffic Lights
- Security Cameras (CCTV)



Features of Our Model

Pay Per Kilowatt Hour Billing System



Online payment via web and app



Electricity Management and Control



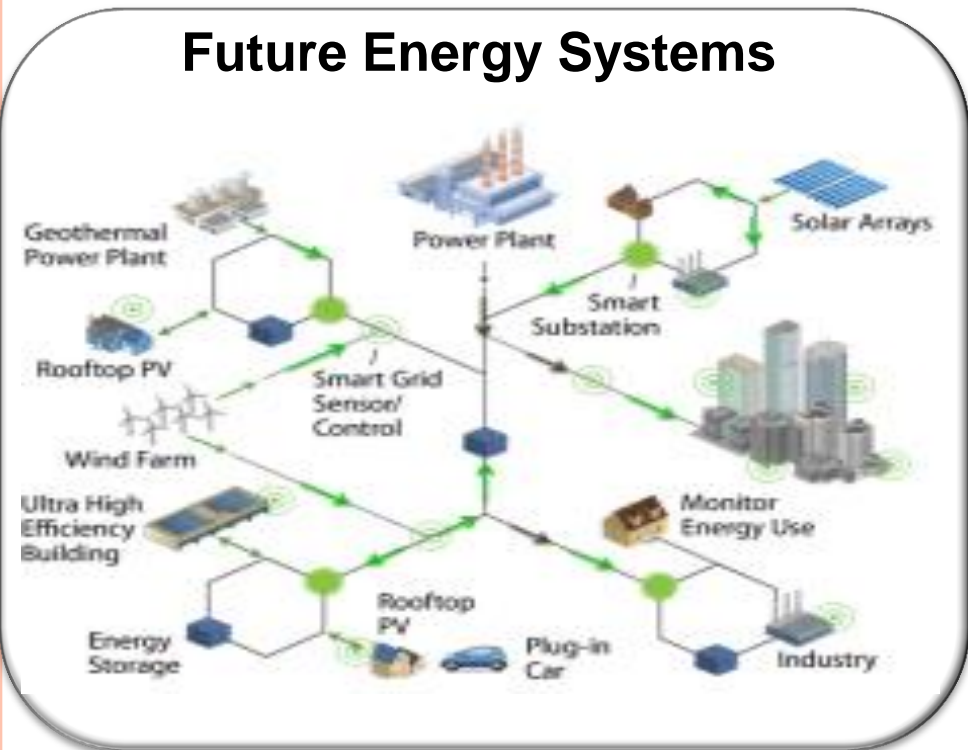
Wrap-Up



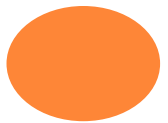
- Pathway to achieving Sustainable Development Goals

- Innovative Solution to weak National Grid System

Future Energy Systems



- The solution can be easily replicated in other African countries.





Awards and Partners

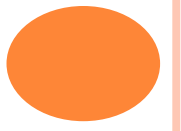


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Call to Action

Join us to solve electricity challenges in Nigeria and Africa as a whole by raising fund for the pilot projects.

- Smart Microgrid System for Master Planned Estate: €250,000
- Public Lighting System: €150,000





Thank You!

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